

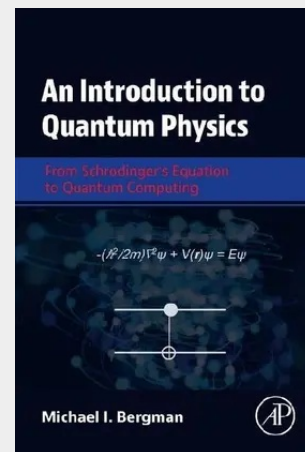
An Introduction to Quantum Physics

From Schrodinger's Equation to Quantum Computing

An Introduction to Quantum Physics: From Schrodinger's Equation to Quantum Computing focuses on the Schrodinger equation and its application to the hydrogen atom while also exploring other idealized but important quantum mechanical problems, such as the infinite square well and the harmonic oscillator to build students' physical intuition. The text assumes only calculus-based introductory physics, but helps students understand the origin of the periodic table and the electronic structure of atoms in a deeper way. In addition, it enables users to make connections with concepts in linear algebra, a course that many students have recently taken or may be taking concurrently. For a student's first exposure to quantum mechanics, the book offers a unique concentration on locality, entanglement, Bell's theorem, and quantum gates. This valuable first edition delivers engaging explanations and illustrative examples for both classic problems solved by quantum mechanics and new ones that form the basis for quantum computing.

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